



(19)

(11) Publication number: **08154694 A**

Generated Document.

PATENT ABSTRACTS OF JAPAN

(21) Application number: **06304089**

(51) Intl. Cl.: **C12P 17/02 C12N 1/00 C12N 5/04**

(22) Application date: **07.12.94**

(30) Priority:

(43) Date of application
publication: **18.06.96**

(84) Designated contracting
states:

(71) Applicant: **MITSUI PETROCHEM IND LTD**

(72) Inventor: **MATSUBARA KOICHI**

(74) Representative:

(54) PRODUCTION OF TAXANE TYPE DITERPENE

(57) Abstract:

PURPOSE: To obtain the subject compound useful for treating ovarian, mammary, pulmonary cancers, etc., with good productivity by culturing a tissue, a cell, etc., of a plant capable of producing a taxane type diterpene using a gas containing oxygen and further gaseous carbon dioxide at a specific concentration.

CONSTITUTION: A tissue (e.g. a stem) of a plant (e.g. *Taxus brevifolia*) capable of producing a taxane type diterpene (e.g. taxol) is bedded on a solid culture medium containing gellan gum, etc., to carry out the stationary culture in the dark at 25°C. A callus is produced and the resultant cultured cell is transferred to a liquid culture medium and cultured at 25°C in the dark for 21 days under stirring while aerating a gas containing oxygen and further gaseous carbon dioxide at $\geq 0.04\%$ concentration. The cell is then recovered by filtration and the recovered cell is freeze-dried to carry out the extraction with methanol, etc. The solvent is distilled away from the extract solution and the purification is performed according to the high-

performance liquid chromatography.
Thereby, the objective taxane type
diterpene useful as a therapeutic agent
for ovarian, mammary, pulmonary
cancers, etc., is obtained with
improved productivity.

COPYRIGHT: (C)1996,JPO

The Delphion Integrated View

Buy Now: [More choices...](#)

Tools: Add to Work File: [Create new Work File](#)

[Go](#)

View: [INPADOC](#)

| Jump to: [Top](#)

[Go to: Derwent...](#)

[Email this to a friend](#)

Title: JP8154694A2: PRODUCTION OF TAXANE TYPE DITERPENE

Country: JP Japan

Kind: A

Inventor: MATSUBARA KOICHI;

Assignee: MITSUI PETROCHEM IND LTD
[News, Profiles, Stocks and More about this company](#)

Published / Filed: June 18, 1996 / Dec. 7, 1994

Application Number: JP1994000304089

IPC Code: C12P 17/02; C12N 1/00; C12N 5/04; A61K 35/78; C12P 17/02;

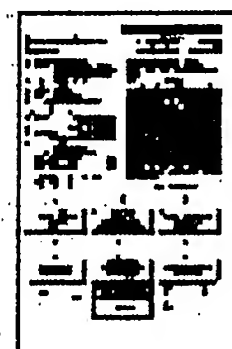
Priority Number: Dec. 7, 1994 JP1994000304089

Abstract:

PURPOSE: To obtain the subject compound useful for treating ovarian, mammary, pulmonary cancers, etc., with good productivity by culturing a tissue, a cell, etc., of a plant capable of producing a taxane type diterpene using a gas containing oxygen and further gaseous carbon dioxide at a specific concentration.

CONSTITUTION: A tissue (e.g. a stem) of a plant (e.g. Taxus brevifolia) capable of producing a taxane type diterpene (e.g. taxol) is bedded on a solid culture medium containing gellan gum, etc., to carry out the stationary culture in the dark at 25°C. A callus is produced and the resultant cultured cell is transferred to a liquid culture medium and cultured at 25°C in the dark for 21 days under stirring while aerating a gas containing oxygen and further gaseous carbon dioxide at ≥0.04% concentration. The cell is then recovered by filtration and the recovered cell is freeze-dried to carry out the extraction with methanol, etc. The solvent is distilled away from the extract solution and the purification is performed according to the high-performance liquid chromatography. Thereby, the objective taxane type diterpene useful as a therapeutic agent for ovarian, mammary, pulmonary cancers, etc., is obtained with improved productivity.

COPYRIGHT: (C)1996,JPO



[View Image](#)

1 page

Family:

PDF	Publication	Pub. Date	Filed	Title
	JP8154694A2	June 18, 1996	Dec. 7, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	JP3019736B2	March 13, 2000	Dec. 7, 1994	
2 family members shown above				

Other Abstract Info:

CHEMABS 125(11)140675Y CAN125(11)140675Y DERABS C96-336584 DERC96-336584